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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/082,274	02/25/2002	Carlos Alfonso Cruz	A01198	3671
21898 7	7590 12/23/2003		EXAMINER	
ROHM AND HAAS COMPANY PATENT DEPARTMENT			ASINOVSKY, OLGA	
100 INDEPENDENCE MALL WEST			ART UNIT	PAPER NUMBER
PHILADELPH	IA, PA 19106-2399		1711	
			DATE MAILED: 12/23/2003	3

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)			
·	10/082,274	CRUZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	Olga Asinovsky	1711			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may a r reply within the statutory minimum of thir riod will apply and will expire SIX (6) MON	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication.			
1) Responsive to communication(s) filed on 23	3 October 2003.				
2a)⊠ This action is FINA L. 2b)□ TI	his action is non-final.				
Since this application is in condition for allocal closed in accordance with the practice under the condition for allocal closed in accordance with the practice under the condition for allocal closed in accordance with the practice under the condition for allocal closed in accordance with the practice under the condition for allocal closed in accordance with the practice under the condition for allocal closed in accordance with the practice under the condition for allocal closed in accordance with the practice under the condition for allocal closed in accordance with the practice under the condition for allocal closed in accordance with the practice under the condition for allocal closed in accordance with the practice under the condition for allocal closed in accordance with the practice under the closed closed in accordance with the practice under the closed	wance except for formal matte er <i>Ex parte Quayle</i> , 1935 C.D	ers, prosecution as to the merits is . 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-10</u> is/are pending in the applicati	ion.				
4a) Of the above claim(s) is/are without	drawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-10</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers					
9) The specification is objected to by the Exami					
10)☐ The drawing(s) filed on is/are: a)☐ a					
Applicant may not request that any objection to the	he drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corn	ection is required if the drawing(s	s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. §§ 119 and 120					
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Apriority documents have been reau (PCT Rule 17.2(a)). st of the certified copies not re	plication No eceived in this National Stage			
13) △ Acknowledgment is made of a claim for domessince a specific reference was included in the factorial 37 CFR 1.78. a) ☐ The translation of the foreign language p	stic priority under 35 U.S.C. § first sentence of the specifical provisional application has be	119(e) (to a provisional application) tion or in an Application Data Sheet.			
14) Acknowledgment is made of a claim for domes reference was included in the first sentence of	stic priority under 35 U.S.C. 8	8 120 and/or 121 since a specific			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Info	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)			
S. Patent and Trademark Office					

Art Unit: 1711

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1 and 9 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for "chain branching units derived from at least one chain branching monomer having two or more reactive sites, said chain branching units being present in an amount not greater than 0.10 weight percent based on the total weight of the C8 to C30 alkyl (meth)acrylate monomer, wherein said chain branching units result in the polymeric composition having non-gelled polymer chains, and wherein said polymeric composition has a weight average molecular weight of at least 100,000 g/mol, does not reasonably provide enablement for non-gelled polymer chains having any molecular weight. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. In particular, in the present specification at page 3, lines 10-12, the inventor discloses non-gelled polymer chains having a weight average molecular weight of at least 100,000 g/mol. Non-gelled polymer chain has specified weight average molecular weight, at page 4, lines 4-6 and 18-19. However, there is not clear a definition for "non-gelled polymer chains." In the present specification at page 6, line 31 through page 7, line 2, the inventor discloses that "in ensuring that non-gelled polymer chains are present, the molecular weight (of

Art Unit: 1711

the polymeric composition) will typically be less than 3,000,000 g/mol, more typically less than 2,000,000 g/mol, and even more typically less than 1,500,000 g/mol." Also, inventor discloses that a practical upper limit for the molecular weight of the polymeric composition is when all of the polymer chains are crosslinked, page 6, line 30. In the working Example 1 at pages 22-23, the inventor discloses that a high molecular weight high-alkyl (meth)acrylate polymer composition based on lauryl methacrylate and of ALMA (allyl methacrylate=chain branching unit) was obtained in the first-stage wherein the first-stage polymer particle has molecular weight greater than 100,000 g/mol, wherein a high-alkyl methacrylate and a functional monomer having two reactive sites are polymerizing together. In light of the relative lack of direction provided by the inventor for using any molecular weight of non-gelled polymer chains it is concluded that it would have required undue experimentation for one of ordinary skill in the art to practice the claimed invention. *In re wands*, 858 F.2d at 737, 8 USPQ 2d 1400, 1404 (Fed Cir. 1988).

3. Claims 1 and 9 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure, which is not enabling. "Non-gelled polymer chains having a weight average molecular weight of at least 100,000 g/mol" in the present specification at page 3, lines 11-12, 21-22, page 4, lines 18-19 is critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). There is no molecular weight for "non-gelled polymer chains." Chain branched units derived from at least one chain branching

Art Unit: 1711

monomer having two or more reactive sites does not properly introduce a non-gelled characteristic for "non-gelled polymer chains." "Non-gelled polymer chain" is considered essential by the applicant, but is not reflected in the amended claims. Moreover, in the currently amended claims 1 and 9 a weight average molecular weight of at least 100,000 g/mol is referring to a polymeric composition.

- 4. Claims 1 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. There is no definition for "non-gelled polymer chain." "Non-gelled polymer chain" is indefinite.

Also, applicants do not properly express the benefit for using "non-gelled polymer chains." Because there is no average molecular weight of said "non-gelled polymer chain."

There is confusion in the present specification. At page 3, lines 11-12, non-gelled polymer chains have a weight average molecular weight of at least 100,000 g/mol, whereas at page 23, line 23 a polymer particle (of the polymer composition) in the first-stage has a molecular weight of greater than 100,000 g/mol. There is no characteristic for "non-gelled polymer chain."

The rejections of claims 1-10 under 35 U.S.C. 103(a) as being unpatentable over Carty et al '4,086,296 or Brady et al '6,031,047 are withdrawn in light of the amendment of 10/23/03.

Art Unit: 1711

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art is relevant to show the state of the art knowledge.

8.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olga Asinovsky whose telephone number is 703-308-0041. The examiner can normally be reached on 9:00 to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 703-308-2462. The fax phone number

Art Unit: 1711

for the organization where this application or proceeding is assigned is 703-872-9310 and 703-872-9311 after final.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

O.A.

December 1, 2003

Olga Asinovsky Examiner Art Unit 1711

Am Nam